Abigail Rachel Albuquerque

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA
B.S. in Data Science, GPA: 3.97   Aug 2020 - May 2024
M.S. in Computer Science, GPA: 4.0   Aug 2022 - May 2024
Awards: Dean's List for 6 semesters

SKILLS

Languages: Python, SQL, Java, R, C, C++, MATLAB
Tools: Tableau, Microsoft Azure, Git, JIRA, Salesforce, Agile Methodology

WORK EXPERIENCE

Data Science Intern - Saint Gobain Research North America, Northborough, MA   May 2023 - Aug 2023
• Developed a pipeline for a particle packing optimization model using Azure ML and deployed a Streamlit web app using the model on Azure Cloud for internal usage
• Assisted in the development of an inverse material property prediction model

Technical Sales Development Intern - Altair Engineering Inc., Worcester, MA   Jun 2022 - Sep 2022
• Conducted extensive data cleansing and helped build ML model to improve internal marketing effectiveness
• Built and ran cadences for data analytics sales division using tools like Salesforce
• Performed research and data scrubbing to build demos for data visualization software

Research Solutions Institute Student Helper - WPI, Worcester, MA   Apr 2022 - Present
• Help build Tableau dashboards for organization to track growth in users, revenue and other statistics
• Use Excel, Tableau and Workday to perform billing tasks and generate reports for organization

Academic Technology Center Student Staff - WPI, Worcester, MA   Aug 2021 - Present
• Interact with customers about their equipment requirements for video-conferencing, sound-recording, other audio-visual needs and trouble-shoot or direct them to the required technicians
• Perform duties such as large format printing and computer re-imaging, and troubleshoot equipment

PROJECTS & RESEARCH

Music Genre Classification using Machine Learning, Worcester, MA   Jan 2023 - Mar 2023
• Used Spotify API to scrape audio clips and create a novel dataset for genre classification
• Conducted extensive research on audio classification, transformed the data, and developed numerical and image classification models achieving 92% accuracy

Brigham and Women's Hospital Application, Worcester, MA   Jan 2023 - Mar 2023
• Collaborated with a team of 10 in an agile development environment using tools like GitHub and JIRA
• Worked as a full-time software engineer both on frontend development for desktop app using JavaFX, MaterialFX and Scene Builder, as well as backend development using PostgresSQL and Hibernate

Stock Price Prediction Project, Worcester, MA   Aug 2022 - Dec 2022
• Built mathematical models incorporating current market trends to predict stock prices using MATLAB
• Collaborated with four peers to collect stock data and present findings semi-weekly

MLB Case Analysis, Worcester, MA   Jan 2022 - May 2022
• Investigated MLB BI systems compared with competitors and proposed new BI solutions
• Collaborated with peers to build data warehouse schemas, Tableau dashboards and ran sentiment analysis using Python on Twitter Data scrapped using it's API to provide recommendations for revenue increase for the MLB

CAMPUS AND COMMUNITY ACTIVITIES

WPI Badminton Club - President and Secretary, Worcester, MA   Dec 2021 - Present
ENGIN Program - Volunteer, Worcester, MA   July 2022 - April 2023